1 19..   A method of communicating information from a page-originating communicant

2 to a page-receiving communicant, utilizing a paging network and a telephone network

3 which operates by generating a page after receiving a paging request from said page-

4 originating communicant, comprising the method steps of:

5   (a)   providing a portable communication device, identified in said paging

6 network to said page-receiving communicant, with an information conveying means;

7   (b)   initiating communication between said page-originating communicant

8 and said page-receiving communicant, utilizing said telephone network;

9   (c)   automatically passing caller-identification information originating from a

10 central office of said telephone network to said paging network, said caller-

11 identification information, including at least data representative of a telephone number

12 for a particular telephone unit utilized by said page-originating communicant in making

13 said paging request without requiring entry by said page-originating communicant of

14 said caller-identification information;

15   (d)   allowing input by said page-originating communicant of optional data;

16   (e)   utilizing said paging network to transmit to said page-receiving

17 communicant at least one of (1) said caller-identification information, and (2) said

18 optional data;

19   (f)   receiving at least one of (1) said caller-identification information, and (2)

20 said optional data, at said portable communication device identified in said paging

21 network to said page-receiving communicant;

22   (g)   conveying to said page-receiving communicant, at said portable

23 communication device in said information conveying means, at least one of (1) said

24 caller identification information, and (2) said optional data.

1   20.   A method as in Claim 19, wherein said portable communication device further
2   includes:

3   (a)   a database recorded in memory with a plurality of associated data fields;

4   (b)   means for comparing information obtained from said paging network with
5   at least one of said plurality of associated data fields; and

6   (c)   a means for conveying information comprised of at least one of (1)
7   information obtained from said paging network, and (2) information obtained from said
8   plurality of data fields;

9   wherein said method of communicating information further includes utilizing
10   said portable communication device for analyzing received said caller-identification
11   information and optional data by utilizing said means for comparing which is resident
12   in said portable communication device to compare at least one of said caller-
13   identification information and optional data with particular ones of said plurality of
14   associated data fields of said database recorded in memory of said portable
15   communication device; and

16   conveying information to said page-receiving communicant in said portable
17   communication device resulting from said step of analyzing.

1   21.   A method of communicating information, according to Claim 20, further

2   comprising:

3   periodically updating said database recorded in memory to include new

4   information regarding potential communicants.

5   22.   A method of communicating information, according to Claim 20, further

6   comprising:

7   if no matched data items are uncovered after comparison, conveying

8   information in said information conveying means of said portable communication

9   device which indicates that no match was found.

10   23.   A method of communicating information, according to Claim 19, further

11   comprising:

12   allowing user selection of intensity levels for page alert notification;

13   providing a page alert notification upon receipt of a page in accordance with

14   said user selection of intensity.

15   24.   A method of communicating information, according to Claim 20, further

16   comprising:

17   periodically updating said database recorded in memory to include new

18   information regarding potential communicants.

1   25.   ^oA- method of communicating information, according to Claim 20, further

2   comprising:

3   if no matched data items are uncovered after comparison, conveying

4   information in said information conveying means of said portable communication

5   device which indicates that no match was found.

6   26.   A method of communicating information, according to Claim 19, further

7   comprising:

8   allowing user selection of intensity levels for page alert notification;

9   providing a page alert notification upon receipt of a page in accordance with

10   said user selection of intensity.

11   27.   A method of communicating information, according to Claim 20, further

12   comprising:

13   providing a detachable input interface;

14   connecting a detachable input interface to said portable connection device;

15   utilizing said detachable input interface to modify said database recorded in

16   memory of said portable communication device.

28.   A method of communicating information, according to Claim 20, further comprising:

providing a means for coupling said portable communication device to a computer;

utilizing said computer to modify said database recorded in memory of said portable communication device.

29.   A method of communicating information, according to Claim 20, wherein said step of analyzing comprises:

comparing said caller-identification information to a telephone number field.

30.   A method of communicating, according to Claim 20, further including:

conveying information contained in selected ones of said plurality of data fields which are associated with said at least one matched data item in said information conveying means of said portable communication device.

31.   A method of communicating, according to Claim 20, further including:

conveying at least a portion of said caller-identification information in said information conveying means of said portable communication device.

1   32.   A method of communicating, according to Claim 19, wherein said optional data

2   includes at least one of the following data types:

3   (a)   numeric data;

4   (b)   alphanumeric data;

5   (c)   digitized speech;

6   (d)   facsimile messages; and

7   (e)   images.

1   33.   A method of communicating information from a page-originating communicant

2   to a page-receiving communicant utilizing a numeric paging network which operates

3   by generating a page after receiving a paging request from said page-originating

4   communicant over a telephone network, comprising the method steps of:

5   (a)   providing a portable communication device identified in said paging

6   network to said page-receiving communicant, said portable communication device

7   including:

8   (1)   a database recorded in memory with a plurality of associated data

9   fields, including a numeric field which is representative of telephone numbers; and

10   (2)   means for comparing information obtained from said paging

11   network with at least one of said plurality of associated data fields;

12   (3)   a display member for displaying at least one of (1) information

13   obtained from said paging network, and (2) information obtained from said plurality

14   of data fields;

15   (b)   initiating communication between said page-originating communicant

16   and said numeric paging network over said telephone network;

17   (c)   automatically passing said caller-identification information from said

18   telephone network to said paging network, said caller identification information

19   including at least a bit string representative of a telephone number for a particular

20   telephone unit utilized by said page-originating communicant in making said paging

21   request without requiring entry by said page-originating communicant of said caller-

22   identification information;

23   (d)   allowing input by said page-originating communicant of an optional

24   message into said paging network;

1   (e)   utilizing said paging network to transmit to said page-receiving

2   communicant (1) said caller-identification information, including at least one of (a)

3   textual identification information for said page-originating communicant, and (b) a bit

4   string representation of a telephone number for a particular telephone unit utilized by

5   said page-originating communicant in making said paging request, and (2) said

6   optional message;

7   (f)   receiving (1) said caller-identification information, including at least one

8   of (a) textual identification information for said page-originating communicant, and

9   (b) a bit string representation of a telephone number for a particular telephone unit

10   utilized by said page-originating communicant in making said paging request, and (2)

11   said optional message at said portable communication device identified in said paging

12   network to said page-receiving communicant;

13   (g)   utilizing said portable communication device for analyzing said caller-

14   identification information, including at least one of (1) textual identification information

15   for said page-originating communicant, and (2) a bit string representation of a

16   telephone number for a particular telephone unit utilized by said page-originating

17   communicant in making said paging request, and (3) optional message by utilizing

18   said means for comparing which is resident in said portable communication device

19   to compare said caller-identification information and said optional message with

20   particular ones of said plurality of associated data fields of said database recorded

21   in memory of said portable communication device; and

22   (h)   displaying information in said display member of said portable

23   communication device resulting from said step of analyzing.

1 34. A method of communicating according to Claim 33, wherein said step of
2 analyzing includes:

3 comparing at least one of (1) said caller-identification information and (2) said
4 optional numeric data to at least portions of said database.

5 35. A method of communicating according to Claim 33, wherein said step of
6 analyzing comprises:

7 comparing said caller-identification information to said telephone number field.

8 36. A method of communicating according to Claim 33, wherein said step of analyzing
9 includes:

10 comparing said optional numeric data to said telephone number field.

11 37. A method of communicating according to Claim 36, further including:

12 identifying matches between said optional numeric data and at least one
13 matched data item in said telephone number field.

14 38. A method of communicating according to Claim 37, further including:

15 displaying information contained in selected ones of said plurality of data
16 fields which are associated with said at least one matched data item in said display
17 member of said portable communication device.

18 39. A method of communicating according to Claim 38, further including:

19 displaying at least a portion of said caller-identification information in said
20 display member of said portable communication device.

1   40.   A method of communicating according to Claim 38, wherein said information
2   displayed in said display member provides an indication of identity of said page-
3   originating communicant.

4   41.   A method of communicating according to Claim 40, wherein said information
5   displayed in said display member comprises at least one name associated in said
6   database with said optional numeric data.

1   42.   A method of communicating information from a page-originating communicant
2   to a page-receiving communicant utilizing a paging network which operates by
3   generating a page after receiving a paging request from said page-originating
4   communicant over a telephone network, said paging request including caller-
5   identification information, including at least a bit string representation of a telephone
6   number for a particular telephone unit utilized by said page-originating communicant
7   in making said paging request, comprising the method steps of:

8   (a)   providing a portable communication device identified in said paging
9   network to said page-receiving communicant, said portable communication device
10   including:

11   (1)   a database recorded in memory with a plurality of associated data
12   fields, including a numeric field which is representative of telephone numbers; and

13   (2)   means for comparing information obtained from said paging
14   network with at least one of said plurality of associated data fields;

15   (3)   a display member for displaying at least one of (1) information
16   obtained from said paging network, and (2) information obtained from said plurality
17   of data fields;

18   (b)   initiating communication between said page-originating communicant
19   and said paging network over said telephone network;

20   (c)   automatically passing said caller-identification information from said
21   telephone network to said paging network;

22   (d)   allowing input by said page-originating communicant of an optional
23   message into said paging network;

1   (e)   utilizing said paging network to transmit to said page-receiving
2   communicant (1) said caller-identification information, and (2) said optional numeric
3   data;

4   (f)   receiving (1) said caller-identification information, an (2) said optional
5   numeric data at said portable communication device identified in said paging network
6   to said page-receiving communicant;

7   (g)   utilizing said portable communication device for analyzing said caller-
8   identification information an optional numeric data by utilizing said means for
9   comparing which is resident in said portable communication device to compare said
10   caller-identification information and said optional numeric data with particular ones of
11   said plurality of associated data fields of said database recorded in memory of said
12   portable communication device and identifying matches between said optional
13   numeric data and at least one matched data item in said telephone number field; and

14   (h)   displaying information in said display member contained in selected
15   ones of said plurality of data fields which are associated with said at least one
16   matched data item in said display member of said portable communication device,
17   including at least a portion of said caller-identification information in said display
18   member of said portable communication device in order to provide an indication of
19   identity of said page-originating communicant which includes at least one name
20   associated in said database with said optional numeric data.

1　43.　A method of communicating information according to Claim 42, further
2　comprising:

3　periodically updating said database recorded in memory to include new
4　information regarding potential communicants.

5　44.　A method of communicating information according to Claim 42, further
6　comprising:

7　including in said portable communication device a calendar with fields
8　annotated with particular dates;

9　programming said portable communication device to automatically provide
10　prompts.

11　45.　A method of communicating information according to Claim 42, further
12　comprising:

13　if no matched data items are uncovered after comparison, displaying
14　information in said display member of said portable communication device which
15　indicates that no match was found.

16　46.　A method of communicating information according to Claim 42, further
17　comprising:

18　allowing user selection of intensity levels for page alert notification;

19　providing a page alert notification upon receipt of a page in accordance with
20　said user selection of intensity.

1   47.   A method of communicating information according to Claim 42, further
2   comprising:

3   providing a detachable input interface;

4   connecting a detachable input interface to said portable connection device;

5   utilizing said detachable input interface to modify said database recorded in
6   memory of said portable communication device.

7   48.   A method of communicating according to Claim 42, further comprising:

8   providing a means for coupling said portable communication device to a
9   computer;

10   utilizing said computer to modify said database recorded in memory of said
11   portable communication device.

49.   A method of communicating information from a page-originating communicant to a page-receiving communicant utilizing a paging network which operates by generating a page after receiving a paging request from said page-originating communicant over a telephone network, comprising the method steps of:

(a)   providing a portable communication device identified in said paging network to said page-receiving communicant, said portable communication device including:

(1)   a database recorded in memory with a plurality of associated data fields, including a numeric field which is representative of telephone numbers; and

(2)   means for comparing information obtained from said paging network with at least one of said plurality of associated data fields;

(3)   a display member for displaying at least one of (1) information obtained from said paging network and (2) information obtained from said plurality of data fields;

(b)   initiating communication between said page-originating communicant and said paging network over said telephone network;

(c)   automatically passing said caller-identification information from said telephone network to said paging network, said caller-identification information including at least a bit string representation of a telephone umber for a particular telephone unit utilized by said page-originating communicant in making said paging request without requiring entry by said page-originating communicant of said caller-identification;

(d)   allowing input by said page-originating communicant of an optional data into said paging network;

1   (e)   utilizing said paging network to transmit to said page-receiving
2   communicant (1) said caller-identification information, including at least a bit string
3   representation of a telephone number for a particular telephone unit utilized by said
4   page-originating communicant in making said paging request without requiring entry
5   by said page-originating communicant of said caller-identification information; and (2)
6   said optional numeric data;

7   (f)   receiving (1) said caller-identification information, including at least a bit
8   string representation of a telephone number for a particular telephone unit utilized by
9   said page-originating communicant in making said paging request without requiring
10 entry by said page-originating communicant of said caller-identification information,
11 and (2) said optional data at said portable communication device identified in said
12 paging network to said page-receiving communicant;

13 (g)   utilizing said portable communication device for analyzing said caller-
14 identification information and optional numeric data by utilizing said means for
15 comparing which is resident in said portable communication device to compare said
16 caller-identification information with particular ones of said plurality of said plurality
17 of associated data fields of said database recorded in memory of said portable
18 communication device; and

19 (h)   displaying information in said display member of said portable
20 communication device resulting from said step of analyzing.

1 50. A method of communicating according to Claim 49, wherein said step of
2 analyzing comprises:

3 comparing said caller-identification information to said telephone number field.

4 51. A method of communicating according to Claim 49, further including:

5 displaying information contained in selected ones of said plurality of data fields
6 which are associated with said at least one matched data item in said display
7 member of said portable communication device.

8 52. A method of communicating according to Claim 49, further including:

9 displaying at least a portion of said caller-identification information in said
10 display member of said portable communication device.

11 53. A method of communicating according to Claim 49, wherein said optional data
12 includes at least one of the following data types:

13 (a) numeric data;
14 (b) alphanumeric data;
15 (c) digitized speech;
16 (d) facsimile messages; and
17 (e) images.